

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
5	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30, with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplasticiser @3% confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) ((P.No.177, I.No.22.6.1 of PW,P&I WTD SR 2016-17)	Cum	1.00	160.00	3.80	0.10	60.80	6217.96	378051.97
	Road Portion								
	Cross Road								
6	Vacuum de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (P.No 177, I.No.22.7 of PW, P&I WTD SR 2016-17)								
	Road Portion	Sqm	1.00	160.00	3.80	--	608.00	95.40	58003.20
	Cross Road						608.00		
							Total Construction Cost	977333.122	
7							Cost towards Preparation of DPR LS	9774.00	
8							Cost towards PMC / Third Party Inspection LS	9774.00	
							Sub Total	996881.12	
9							Miscellaneous and rounding off	3118.88	
							Total	1000000.00	

Certificate.

- 1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
- 2 The provisions made in the estimate are necessary and essential.
- 3 The workspot was inspected and work is found to be necessary.
- 4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

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Assistant Engineer

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Assistant Executive Engineer

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Executive Engineer

26/11/17



BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Roads and Drains at Agrahara layout Kallappa Reddy Main road in Ward No. 1

Est Cost: =50.0Lakh

Sl. No.	Description of work	Unit	No.	Length		Breadth		Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m	m				
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)										
	Desilt	Cum									
	Kallappa Reddy Mn Rd From Kogilu Rd		2	550.00		0.50		0.45	247.50		
									247.50	186.92	46262.70
2	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)										
	Road Portion	Cum									
	Kallappa Reddy Mn Rd From Kogilu Rd		1	550.00		7.40		0.23	936.10		
									936.10	155.16	145245.28
3	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)										
	Road Portion	Cum									
	Kallappa Reddy Mn Rd From Kogilu Rd		1	550.00		7.40		0.23	936.10		
									936.10	1768.08	1655099.69
4	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kgsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)										
	Road Portion	Sqm									
	Kallappa Reddy Mn Rd From Kogilu Rd		1	550.00		7.40		--	4070.00		
									4070.00	27.56	112169.20
5	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)										
	Road Portion	Sqm									
	For laying DBM										
	Kallappa Reddy Mn Rd From Kogilu Rd		1	550.00		7.40		--	4070.00		
	For Laying BC										
	Kallappa Reddy Mn Rd From Kogilu Rd		1	550.00		7.40		--	4070.00		
									8140.00	11.66	94912.40

KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.165 of I.No.21.17.6 in PW,P&I WTD S.R 2016-17)									
Kallappa Reddy Mn Rd From Kogilu Rd	1	550.00	7.40	0.05	203.50				
					203.50	6284.74			1278944.59
7 KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&I WTD S R 2016-17)									
Road Portion									
Kallappa Reddy Mn Rd From Kogilu Rd	1	550.00	7.40	0.04	162.80				
					162.80	7083.98			1153271.94
8 KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No 185, I.No.24.15 of PW,P&I WTD SR 2016-17)									
Edge line	Sqm	2	550.00	0.10	--	110.00			
Center line		1	550.00	0.10	--	55.00			
						165.00	542.72		89548.80
						Total Construction Cost			4575454.600
						Cost towards Preparation of DPR LS			45755.00
						Cost towards PMC / Third Party inspection LS			45755.00
						Sub Total			4666964.60
						Miscellaneous and rounding off			333035.40
						Total			5000000.00

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